



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A5 BYPASS RATIO: 5.1
 UNIQUE ID NUMBER: 1GE020 PRESSURE RATIO (π_{00}): 31.6
 COMBUSTOR:
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 267.3

REGULATORY DATA

| CHARACTERISTIC VALUE: | HC | CO | NO _x | SMOKE NUMBER |
|--|------|------|-----------------|--------------|
| D _p /F ₀₀ (g/kN) or SN | 14.5 | 59.6 | 54.2 | 9.1 |
| AS % OF ORIGINAL LIMIT | 73.8 | 50.5 | 52.5 | 50.6 |
| AS % OF CAEP/2 LIMIT (NO _x) | | | 65.6 | |
| AS % OF CAEP/4 LIMIT (NO _x) | | | 77.2 | |
| AS % OF CAEP/6 LIMIT (NO _x) | | | 87.2 | |
| AS % OF CAEP/8 LIMIT (NO _x) | | | 101.7 | |

DATA STATUS

- PRE-REGULATION
 - CERTIFICATION
 x REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

| MODE | POWER SETTING (%F ₀₀) | TIME (minutes) | FUEL FLOW (kg/s) | EMISSIONS INDICES (g/kg) | | | SMOKE NUMBER |
|--|-----------------------------------|----------------|------------------|--------------------------|------------|-----------------|--------------|
| | | | | HC | CO | NO _x | |
| TAKE-OFF | 100 | 0.7 | 2.581 | 0.07 | 0.52 | 34.38 | 7.8 |
| CLIMB OUT | 85 | 2.2 | 2.082 | 0.08 | 0.52 | 22.86 | 5.4 |
| APPROACH | 30 | 4.0 | 0.687 | 0.20 | 1.93 | 9.11 | 2.3 |
| IDLE | 7 | 26.0 | 0.207 | 8.99 | 41.65 | 3.79 | 3.0 |
| LTO TOTAL FUEL (kg) or EMISSIONS (g) | | | 871 | 2966 | 13967 | 12735 | - |
| NUMBER OF ENGINES | | | | 2 | 2 | 2 | 2 |
| NUMBER OF TESTS | | | | 3 | 3 | 3 | 3 |
| AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX) | | | | 11.1 | 52.4 | 49.3 | 7.8 |
| SIGMA (D _p /F ₀₀ in g/kN, or SN) | | | | 1.3 | 3.0 | 2.2 | 1.3 |
| RANGE (D _p /F ₀₀ in g/kN, or SN) | | | | 10.02-12.49 | 49.73-55.2 | 46.22-49.73 | 6.1-8.4 |

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

| | |
|----------------------|--------------|
| BAROMETER (kPa) | 97.4-97.8 |
| TEMPERATURE (K) | 287-296 |
| ABS HUMIDITY (kg/kg) | 0.0084-0.014 |

FUEL

| | |
|----------|-------|
| SPEC | Jet A |
| H/C | 1.94 |
| AROM (%) | 15.3 |

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: CF6 Eval Engineering
 TEST LOCATION: Site IIIC, PTO, Peebles, Ohio
 TEST DATES: 29/05/1985-03/06/1985

REMARKS

1. Ref GE Report R84AEB152.
2. Engine S/N's 690105 and 690005/2.

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)